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PATENT COOPERATION TREATY

From the REC'D 11 MAY 2005 INTERNATIONAL SEARCHING AUTHORITY To: **PCT** WIPO JANE MASSEY LICATA LICATA & TYRRELL P.C. 66 E. MAIN STREET WRITTEN OPINION OF THE MARLTON, NJ 08053 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below DRE-0156 International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US04/21382 02 July 2004 (02.07.2004) 03 July 2003 (03.07.2003) International Patent Classification (IPC) or both national classification and IPC IPC(7): C01B 31/02 and US C1.: 423/445R Applicant DREXEL UNIVERSITY 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Stuart Hendrickson Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-1700 Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/21382

BOX No. 1 Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a.	type of material				
	a sequence listing				
	table(s) related to the sequence listing				
b.	format of material				
	in written format				
	in computer readable form				
c.	time of filing/furnishing				
	contained in international application as filed.				
	filed together with the international application in computer readable form.				
	furnished subsequently to this Authority for the purposes of search.				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additi	onal comments:				
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Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/21382

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement		• ,			
Novelty (N)	Claims	2,5	YES		
notely (1)		1,3,4,6,7	NO		
Inventive step (IS)	Claims	2,5	YES		
	Claims	1,3,4,6,7	NO		
Industrial applicability (IA)	Claims	1-7	YES		
mustrui appheasing (113)	Claims		NO		

2. Citations and explanations:

Claims 1,3,4,6,7 lack novelty under PCT Article 33(2) as being anticipated by Eriksson et al.

The reference teaches in the flowchart and example heating Ti carbide with halogen at 600 degrees C to make carbon. No difference is seen in the carbon product or the stated intent of the process.

Claims 2 and 5 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the starting material or high temperature recited.

Claims 1-7 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

It is also noted that applicants admit in the specification that carbon derived from carbides is well known in the art.